

17720_2

Word count: 0

$$\int_{-1}^2 (e^{3x} - x^2) dx = \int_{-1}^2 e^{3x} dx - \int_{-1}^2 x^2 dx =$$

$$= \left[\frac{1}{3} e^{3x} \right]_{-1}^2 - \left[\frac{x^3}{3} \right]_{-1}^2 = \frac{1}{3} e^6 - \frac{1}{3} e^{-3} - \frac{8}{3} - \frac{1}{3}$$

$$= \frac{1}{3} (e^6 - e^{-3}) - \frac{7}{3}$$

Il segno è sbagliato.

voto 4.5

REDMI NOTE 8T
AI QUAD CAMERA

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es 2)

Calcolare l'integrale:

$$\int_{-1}^2 (e^{3x} - x^2) dx$$

Risolviamo prima l'integrale indefinito:

$$\int (e^{3x} - x^2) dx = \int e^{3x} dx - \int x^2 dx = \frac{e^{3x}}{3} - \frac{x^3}{3}$$

quindi:

$$\int_{-1}^2 (e^{3x} - x^2) dx = \left[\frac{e^{3x}}{3} - \frac{x^3}{3} \right]_{-1}^2 = \frac{e^6}{3} - \frac{8}{3} - \frac{e^{-3}}{3} + \frac{(-1)^3}{3}$$

$$= \frac{e^6}{3} - \frac{e^{-3}}{3} - \frac{8}{3} - \frac{1}{3} = \frac{e^6 - e^{-3} - 9}{3} = \frac{e^6 - e^{-3}}{3} - 3$$

voto 5

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CALCOLARE L'INTEGRALE

$$\int_{-1}^2 (e^{3x} - x^2) dx = \left. \frac{1}{3} e^{3x} - \frac{x^3}{3} \right|_{-1}^2$$

$$= \frac{1}{3} e^{3 \cdot 2} - \frac{2^3}{3} - \frac{1}{3} e^{3 \cdot (-1)} + \frac{(-1)^3}{3}$$

$$= \frac{e^6}{3} - \frac{8}{3} - \frac{e^{-3}}{3} - \frac{1}{3}$$

$$= \frac{1}{3} (e^6 - e^{-3}) - \frac{9}{3}$$

$$= \frac{1}{3} (e^6 - e^{-3}) - 3$$

voto 5

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$$\int_{-1}^2 (e^{3x} - x^2) dx = \left. \frac{e^{3x}}{3} - \frac{x^3}{3} \right|_{-1}^2$$

Errore nell'integrale
dell'esponenziale.

$$= \left(\frac{e^6}{3} - \frac{8}{3} \right) - \left(\frac{e^{-3}}{3} - \frac{1}{3} \right)$$

$$\frac{3e^6 - 8 - 3e^{-3} - 1}{3} = \frac{\cancel{3}e^3 - 9}{\cancel{3}} = e^3 - 9$$

Non ha semplificato bene.

voto 2

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$$\begin{aligned}
 \int_{-1}^2 (e^{3x} - x^2) dx &= \int_{-1}^2 e^{3x} dx - \int_{-1}^2 x^2 dx = \\
 &= \left[\frac{e^{3x}}{3} \right]_{-1}^2 - \left[\frac{x^{2+1}}{2+1} \right]_{-1}^2 = \\
 &= \frac{1}{3} [e^{3 \cdot 2} - e^{3 \cdot (-1)}] - \left[\frac{x^3}{3} \right]_{-1}^2 = \\
 &= \frac{1}{3} [e^6 - e^{-3}] - \frac{1}{3} [(2)^3 - (-1)^3] = \\
 &= \frac{1}{3} [e^3] - \frac{1}{3} [8 - (-1)] = \\
 &= \frac{1}{3} e^3 - \frac{1}{3} [8 + 1] = \frac{1}{3} e^3 - \frac{9}{3} \\
 &= \frac{1}{3} e^3 - 3
 \end{aligned}$$

Errore grave sulla somma di esponenziali.

voto 1.5

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2) CALCOLARE L'INTEGRALE

$$\int_{-1}^2 (e^{3x} - x^2) dx =$$

$$\int_{-1}^2 e^{3x} dx - \int_{-1}^2 x^2 dx =$$

$$\left[\frac{e^{3x}}{3} - \frac{x^3}{3} \right]_{-1}^2 =$$

$$\frac{e^{3x} - x^3}{3} \Big|_{-1}^2 =$$

$$\frac{e^6 - 8}{3} - \frac{1 + e^3}{3}$$

Non ha finito il conto.

voto 4.5

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$$\int_{-1}^2 (e^{3x} - x^2) dx$$

$$\int_{-1}^2 e^{3x} dx - \int_{-1}^2 x^2 dx \Rightarrow$$

$$\Rightarrow \int_{-1}^2 \frac{e^{3x}}{3} dx - \int_{-1}^2 \frac{x^3}{3} dx \Rightarrow$$

$$\frac{e^{3x}}{3} - \frac{x^3}{3} \Big|_{-1}^2 \Rightarrow$$

$$\Rightarrow \frac{e^6 - 8}{3} - \frac{1 + e^3}{3e^3}$$

Errore di calcolo. In più non ha terminato il conto.

voto 2.5

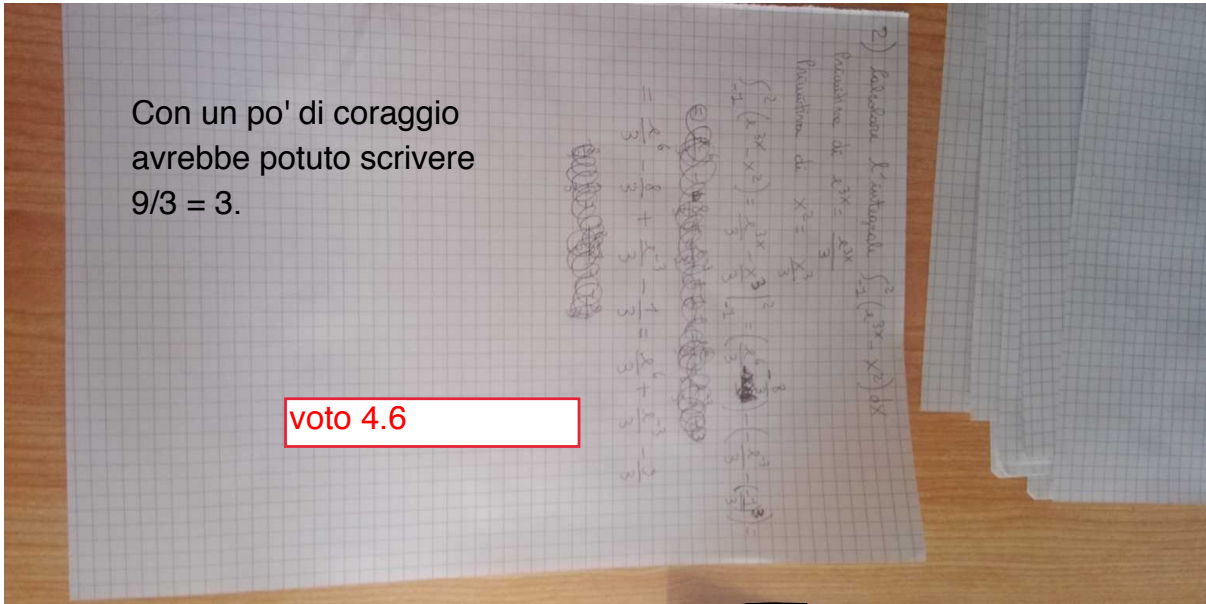
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$$\int_{-1}^2 (e^{3x} - x^2) dx$$

$$= \left[\frac{e^{3x}}{3} - \frac{x^3}{3} \right]_{-1}^2$$

$$= e^{3 \cdot 2} - \frac{2^3}{3} + e^{-3(-1)} + \frac{-1^3}{3}$$

$$= e^6 - \frac{8}{3} + e^{-3} - \frac{1}{3}$$

$$= e^6 - \frac{9}{3} + e^{-3}$$

$$= e^6 - 3 + e^{-3}$$

C'è un errore di calcolo nell'integrale dell'esponenziale.

voto 3

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esercizio 2

calcolare l'integrale

$$\int_{-1}^2 (e^{3x} - x^2) dx \rightarrow \int (e^{3x} - x^2) dx \rightarrow$$

$$\int e^{3x} dx - \int x^2 dx \rightarrow \frac{1}{3} \int 3e^{3x} dx - \int x^2 dx$$

$$\rightarrow \frac{1}{3} e^{3x} - \frac{x^3}{3} + c \rightarrow \left[\frac{1}{3} e^{3x} - \frac{x^3}{3} \right]_{-1}^2 \rightarrow$$

$$\left(\frac{1}{3} e^6 - \frac{8}{3} \right) - \left(\frac{1}{3} e^{-3} + \frac{1}{3} \right) = \frac{1}{3} e^6 - \frac{8}{3} - \frac{1}{3} e^{-3} - \frac{1}{3} =$$

$$= \frac{1}{3} (e^6 - e^{-3}) - 3 = \frac{1}{3} \left(e^6 - \frac{1}{e^3} \right) - 3$$

voto 5

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Es.

$$\int_{-1}^2 (e^{3x} - x^2) dx = \int_{-1}^2 e^{3x} dx - \int_{-1}^2 x^2 dx =$$

$$= \left[\frac{e^{3x}}{3} - \frac{x^3}{3} \right]_{-1}^2 = \frac{e^6}{3} - \frac{2^3}{3} - \left(\frac{e^{-3}}{3} - \frac{(-1)^3}{3} \right) = \frac{e^6}{3} - \frac{8}{3} - \frac{e^{-3}}{3} - \frac{1}{3} =$$

$$= \frac{e^6}{3} - \frac{e^{-3}}{3} - \frac{9}{3} = \frac{e^6}{3} - \frac{e^{-3}}{3} - 3$$

$-\frac{8}{3} - \frac{1}{3} = \frac{-8-1}{3} = -\frac{9}{3}$

voto 5

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$$\int_{-1}^2 (e^{3x} - x^2) dx = \int_{-1}^2 e^{3x} dx - \int_{-1}^2 x^2 dx$$

$$\left[\frac{e^{3x}}{3} - \frac{x^3}{3} \right]_{-1}^2$$

$$\left[\frac{e^{3(2)}}{3} - \frac{(2)^3}{3} - \frac{e^{3(-1)}}{3} + \frac{(-1)^3}{3} \right]$$

$$\left[\frac{e^6}{3} - \frac{8}{3} - \frac{e^{-3}}{3} + \frac{1}{3} \right]$$

$$\left[\frac{e^6}{3} - \frac{7}{3} - \frac{e^{-3}}{3} \right]$$

E' sbagliato un segno.

voto 4

